	Application No.	Applicant(s)	
Notice of Allowability	10/749,322	BAE ET AL.	
	Examiner	Art Unit	
	Phuong Phu	2611	
	Fridong Prid	2011	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not included inication will be mailed in due course. THIS	ive
1. A This communication is responsive to the Amendment filed	<u>on 8/2/07</u> .		
2. The allowed claim(s) is/are <u>1-6</u> .			
3. ☑ Acknowledgment is made of a claim for foreign priority unestable a) ☑ All b) ☐ Some* c) ☐ None of the:		or (f).	
1. ☑ Certified copies of the priority documents have			
2. Certified copies of the priority documents have	• •		
3. Copies of the certified copies of the priority do	cuments have been received	in this national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			
5. \square CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review	(PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) shouid be written on th he header according to 37 CFI	e drawings in the front (not the back) of R 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F 	SIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	RIAL must be submitted. Note the LOGICAL MATERIAL.	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 🖂 Notice of Inf	ormal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Su	mmary (PTO-413),	
	Paper No./N	Mail Date	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🔲 Examiners /	Amendment/Comment	
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. 🛭 Examiner's S	Statement of Reasons for Allowance	
	9. 🗌 Other	•	
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Art Unit: 2611

DETAILED ACTION

1. This Office Action is responsive to the Amendment filed on 8/2/07. Accordingly, claims 1-6 are currently pending.

REASONS FOR ALLOWANCE

- 2. Claims 1-6 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:
- -Regarding independent claim 1, none of prior art of record teaches or suggests a beam selecting apparatus of a digital TV receiver, the digital TV receiver having a switched beamforming means and a channel equalizing means, the beam selecting apparatus comprising: a correlating means for calculating cross-correlation values with respect to previous known Field Sync signals and Field Sync signals of beams, the beams having energy larger than a predefined value among beams outputted from the switched beamforming means; a channel profile extracting means for extracting multi-path channel profiles of the beams; an effective signal path searching means for obtaining the number of effective signal paths based on the channel profiles; and a beam selecting means for selecting beams of a channel profile having the smallest number of the effective signal paths among the beams outputted from the switched beamforming means as an input beam of the channel equalizing means.

-Regarding independent claim 4, none of prior art of record teaches or suggests a beam selecting method of a digital TV receiver, the digital TV receiver having a switched beamforming means and a channel equalizing means, the beam selecting method comprising procedures of: a) calculating cross-correlation values with respect to previously known Field Sync signals and Field Sync signals of beams, the beams having energy larger than a predefined Art Unit: 2611

value among beams outputted from the switched beamforming means; b) extracting multi-path channel profiles of the beams; c) obtaining the number of effective signal paths based on the channel profiles; and d) selecting beams of a channel profile having the smallest number of the effective signal paths among the beams outputted from the switched beamforming means as an input beam of the channel equalizing means.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571-272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/749,322

Art Unit: 2611

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phuong Phu Primary Examiner Art Unit 2611

Phum Phu

PHUONG PHU
PRIMARY EXAMINES

Phuong Phu 08/22/07